

# Status of ISMS, Richland Operations Office



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# ISMS Basis

**DNFSB 95-2....incorporate into planning and execution...controls necessary to ensure the ESH objectives are met....**

**DNFSB Tech 16 provided:**

- **1<sup>st</sup> definition of core functions**
- **Multi-level integration concept**
- **Environmental as a component concept**



# What is a Management System?

A management system is an orderly set of components that serve to accomplish one or more objectives of the organization. A system's goal may be to facilitate the flow of information, improve quality, or improve safety. However, the underlying goal of all management systems is to reduce entropy. (i.e., energy expended that isn't used to do work.)



# Concept

DOE

**ISMS Objectives**

**ISMS Principles**

**ISMS Functions**

**ISMS Mechanisms**

**ISMS Responsibilities**

**ISMS Implementation**

**Contractor**



# Objective

**“The Department and Contractors must systematically Integrate Safety (ES&H) into management and work practices at all levels so that missions are accomplished while protecting the public, the worker, and the environment.”**

DOE Policy 450.4



# Flow Down of ISMS

- ◆ **Contractor ISMS expectations established through contract clauses**
  - ◆ **48 CFR 970.5223–1, Integration of environment, safety, and health into work planning and execution.**
  - ◆ **DOE M 450.4-1, ISMS Manual (Contractor Requirement Document)**
  - ◆ **48 CFR 970.5215-3, Conditional payment of fee, profit, and other incentives-facility management contracts.**



# Principles

- **Line Mgmt. Responsible for Safety**
- **Clear Roles and Responsibilities**
- **Competence Commensurate with Responsibilities**
- **Balanced Priorities**
- **Safety Requirements Identified**
- **Hazard Controls Tailored to Work**
- **Operations Authorization**

# Functions

- **Define Scope of Work**
- **Identify Hazards & Requirements**
- **Analyze Hazards & Implement Controls**
- **Perform Work Within Controls**
- **Provide Feedback & Improvement**



# Status of RL ISMS (PRC)

- ◆ Phase II verification performed in Feb. 2010
- ◆ ISMS review team found that CH2M HILL Plateau Remediation Company (CHPRC) had documented and implemented an adequate ISMS.
  - ◆ Nine good practices, 23 opportunities for improvement, and four concerns related to the CHPRC ISMS; except for Waste Retrieval Project (WRP) operations
- ◆ One significant exception to this conclusion is related to overall ISMS implementation at the Waste Retrieval Project
  - ◆ Six specific concerns were identified related to the WRP ISMS.



## **Status of RL ISMS (PRC, cont.)**

- ◆ **Verification of CHPRC's Integrated Safety Management Corrective Action Effectiveness at the Waste Retrieval Project was performed in October, 2010.**
  - ◆ **The team found that the six corrective actions resulting from the February 2010 review at WRP have been largely implemented and effective, and RL now considers the CHPRC ISMS adequately implemented.**



# Status of RL ISMS (MSA)

- ◆ **Combined Phase I/II verification performed in Nov./Dec. 2010**
  - ◆ **The review team recommended approval of the MSA ISMS**
  - ◆ **Four cross-cutting concerns and one concern related to Hazard control (Nuclear Safety) Identified**
  - ◆ **One good practice**
  - ◆ **Roughly 100 opportunities for improvement and 20 observations, most of which are incorporated into the four cross-cutting concerns**



# RL's Expectations from ISM

- ◆ Mission accomplishment improves
- ◆ Work complies with standards
- ◆ Event rates/exposure optimized
- ◆ Worker ownership increases
- ◆ Safety efficiency increases
- ◆ Process improvement
- ◆ Supervisory credibility improves

